

ANDREW GAO

7 Davis Road, Southborough, MA 01772 | (508) 808-3502 | andrewxgao@gmail.com

EDUCATION

Cornell University

Intended B.A. in Computer Science, Milstein Program Scholar

Ithaca, NY

Expected Graduation: May 2022

- Relevant Coursework: Discrete Structures, OO Programming and Data Structures, Linear Algebra

Algonquin Regional High School

Northborough, MA

Graduate

Aug 2014 – Jun 2018

- GPA (weighted): **5.05/5.00**, Rank: **10/343**
- ACT: **35/36**, SAT: **1560/1600**, PSAT: **1490/1520**, SAT Subject Tests: Math 2 (**800/800**), Chemistry (**800/800**)
- APs: Biology (**5**), Calculus BC (**5**), Chemistry (**5**), Computer Science A (**5**), English Language and Composition (**5**), Physics C Mechanics (**5**), Physics C E&M (**5**), U.S. History (**4**), World History (**4**)
- Awards: NHS, SNHS, Mu Alpha Theta, RIT Computing Medal, University of Rochester Bausch & Lomb Award, St. Michael's Book Award, French Academic Excellence Award, National Merit Scholarship Semifinalist, National AP Scholar, Principal's List

WORK EXPERIENCE

Worcester Polytechnic Institute Bioinformatics & Computational Biology

Worcester, MA

Web and Android Application Developer

Jun 2017 – Apr 2018

- Rebuilt user interface to adhere with Google's Material Design for an Android application that collects data on locations of threatened bumblebees in New England
- Increased accessibility and streamlined usability of screens in Android application using Java and XML in Android Studio
- Created framework for website using HTML, CSS, Javascript, and Angular in Visual Studio Code

Self-Employed (Fiverr)

Southborough, MA

Freelance Graphics Designer

Oct 2014 – Aug 2018

- Designed custom social media graphics using GIMP for over 80 clients in 10 different countries
- Maintained a 5-star rating since inception and favorited by over 180 users

VOLUNTEER EXPERIENCE

Yingkou Thrombosis Hospital

Yingkou, Liaoning, China

Volunteer

Aug 2017

- Shadowed lead radiologist and technicians for 100+ hours in order to learn about ultrasound, X-rays, and CT scans
- Observed laparoscopic surgery of the uterus and surgical procedures during a visit to the Yingkou Central Hospital

Selecta Biosciences

Watertown, MA

Selected Shadow Program Participant

Aug 2016

- Shadowed Head of Chemistry in the lab for a clinical-stage biopharmaceutical company, learning about lab procedures, pharmaceutical development, and drug delivery mechanisms
- Assisted in preparation of buffer solutions for protein conjugation

Algonquin Peer Tutoring

Northborough, MA

Tutor

Oct 2016 – Jun 2018

- Tutored fellow students in chemistry, geometry, precalculus after school for a total of 60+ hours

LEADERSHIP & ACTIVITIES

Algonquin Science Research Club

Northborough, MA

Founder & President

Sep 2016 – Jun 2018

- Designed and programmed Arduino boards in order to measure light levels on the roof of the school
- Created a kinetic mural dedicated to school's retiring principal, incorporating solar panels and 3-D printed parts

Algonquin Health Occupations Students of America (HOSA)

Northborough, MA

Senior Member & Project Committee Member

Sep 2015 – Jun 2018

- Awarded first place in the EMT event of the 2017 Massachusetts HOSA competition
- Planned school-wide events such as an American Heart Association fundraiser and an experiment about test-taking strategies

Algonquin FRC Team 1100 Robotics

Northborough, MA

Senior Member, Manipulator Subteam

Sep 2014 – Jun 2018

- Used Solidworks CAD and power tools to design and engineer various parts for precise object placement
- Volunteered at local events such as Applefest, Heritage Day, and FLL qualifiers for community outreach

Algonquin Math Team

Northborough, MA

Varsity Team A Member

Sep 2014 – Jun 2018

- Achieved highest score of all team upperclassmen, ranking top 30 in the Worcester County Math League for 2016-17
- Assisted in organizing practices and recruiting over ten new members

SKILLS & INTERESTS

Languages: Mandarin (Conversational), French (Basic)

Computers: GIMP, Inkscape, Figma, Java, XML, HTML, CSS, Linux, Terminal, Flutter

Interests: Volleyball (Cornell club setter), Music (Piano and alto saxophone), Programming, Graphics, Drawing, Photography